Watershed Management: A Local Jurisdictional Viewpoint

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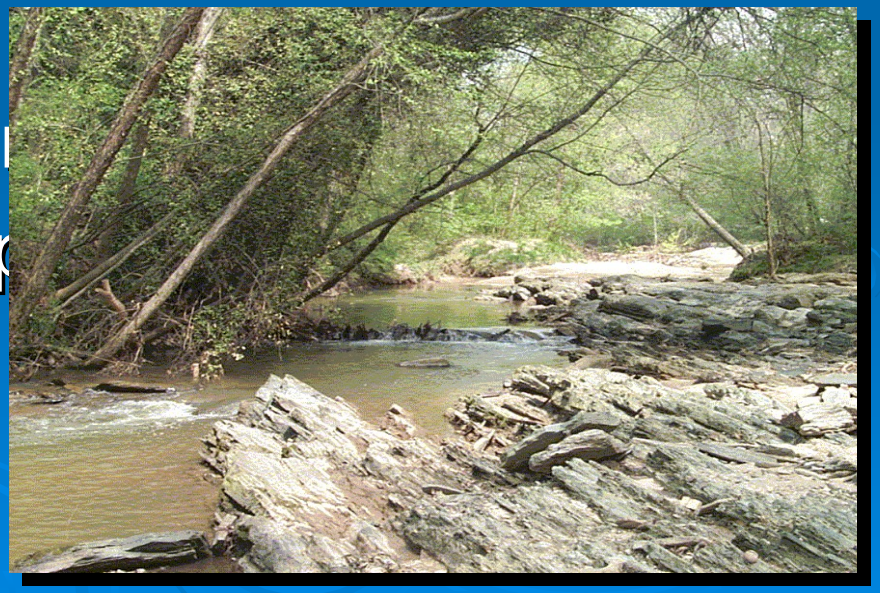
Toward Integrated Water Resource Management

Local Jurisdictional Drivers

- Localized flooding complaints
- Erosion / loss of property
- 303d listed streams / TMDLs
- Permitting of wastewater treatment plants
- Water Supply concer
- Flood insurance map updates
- Aquatic Integrity



Designing BMPs to Address Various Goals

- Level of Service
  - Flood Control
  - Water Quality Protection
  - Stream Channel Protection
  - Habitat Protection
- Operation and Maintenance
- Water Supply and Recharge
- Financing
- Community Acceptance

Partnering with Local Jurisdictions: Keys to Success

- Prioritizing goals
  - Determining the appropriate level of detail and resulting cost sharing
  - Balancing various stakeholder goals
  - Example of main stem versus trib
- Design of multi-purpose BMPs
  - Flood control
  - Ecosystem restoration
  - Water Quality
  - Erosion
  - Regulatory compliance
- The COE could play critical role in bringing multiple jurisdictions to the table.
  - Upstream and downstream jurisdictions are effected by decisions made

Partnering with Local Jurisdictions: Keys to Success

- Collaboration / Sharing of Data
  - Corps technical resources
    - Expertise in various technical fields, advanced research and historical data
    - Reduction in duplication of efforts
  - Monitoring / Developing a water quality baseline
  - GIS
    - Land use, aerial photography, complaints, etc.
    - Updating information
  - Different levels of detail depending on drivers

Partnering with Local Jurisdictions: Keys to Success

- Permitting
  - Communication between various government agencies
  - Corps could help jurisdictions coordinate with state and federal permitting of BMPs
- Example:

  Study recommended Cobb County construct a detention pond on main stem of stream. They had difficulty permitting it. Corps could bring broad knowledge of permitting requirements before recommendations are made.

Partnering with Local Jurisdictions: Keys to Success

- Education
  - Targeted education - adults and children
    - Several Websites exist
    - Augusta's award winning program
  - Partnerships with community / citizen groups
  - Builds trust by understan issues of citizens

Result.....improved water

The Augusta Ripple
Where does drinking water come from?
SOURCE WATER
make your own water cycle
1 What kind of bank needs no money?
2 What runs but never gets tired?
3 What runs and has no feet, roars but has no mouth?
The JOURNEY of water
EVAPORATION
CONDENSATION
PRECIPITATION
COLLECTION
The Hydrologic Cycle
What's a Source Water Assessment?
4 What three letters mean "stiff water"?
Save WATER & soap too
CONSERVE IS THE WORD!
for kids
Brought to you by
Augusta Utilities Department

Partnering with Local Jurisdictions: Keys to Success

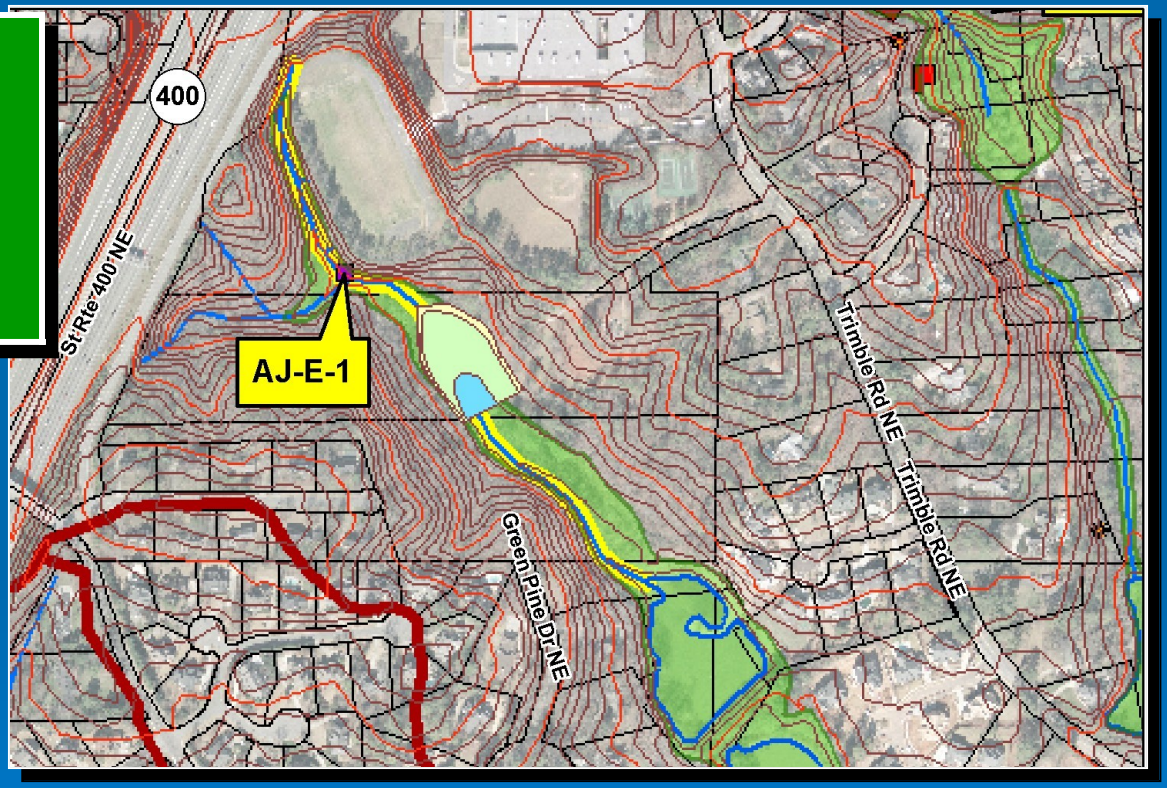
- Lessons Learned
  - Cost effectiveness
    - Multiple ongoing studies
    - Repeated
  - Lack of coordinat
    of technical data

Partnering with Local Jurisdictions: Keys to Success

- Lessons Learned (Continued)
  - Localized flooding and erosion problems are typically in tributaries
    - Detail of Study
    - Level of Service
    - The Need to Balance Goals
  - Understanding the effectiveness of BMPs as it relates to multiple watershed goals

Example BMP

Problem:
Erosion /
Extreme Runoff
from GA 400



Benefit: Prevent additional downstream erosion
Reduce TSS loading
Improve water quality

Example of Local Jurisdiction balancing goals and working together for a positive impact on the water:
Augusta, GA

- Flood Control
- Erosion Control
- Water Quality
- Teamwork
- Public Education
- Public Support

Thank You for your time.

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